

Amendments to the Claims

Claim 1 (currently amended): A method of producing a stereoregular head, tail-poly(alkylene D-glucaramide) postpolymer, the method comprising the steps of:

- a) esterifying an amidoamino acid in an alcohol, wherein the amidoamino acid is derived from D-glucaric acid and an alkylene diamine, the amide bond between C-6 of the glucaryl unit and one nitrogen from one of the amine units of the alkylene diamine, the amidoamino acid having a single amine unit at the alkylene terminus and a carboxylic acid unit at the C-1, D-glucaryl terminus;
- b) polymerizing the esterified amidoamino acid in a protic solvent in the presence of a tertiary amine to form a stereoregular prepolymer; and
- c) polymerizing the stereoregular prepolymer in a solvent that is different from the solvent of step b) to form the stereoregular head, tail-poly(alkylene D-glucaramide) postpolymer.

Claim 2 (original): The method of claim 1, wherein said alcohol is selected from the group consisting of methanol, ethanol, propanol and isopropanol containing a strong acid.

Claim 3 (original): The method of claim 1, wherein said method further comprises the step of, after a), isolating said esterified amidoamino acid by solvent removal under mild conditions.

Claim 4 (original): The method of claim 1, wherein said amidoamino acid is selected from the group consisting of 6-[N-(2'-aminoethyl)]-D-glucaramide and salts thereof, 6-[N-(4'-aminobutyl)]-D-glucaramide and salts thereof, 6-[N-(6'-aminohexyl)]-D-glucaramide, and salts thereof, and 6-[N-(12'-aminododecyl)]-D-glucaramide, and salts thereof.

Claim 5 (currently amended): The method of claim 1, wherein said protic solvent of step 1b) is selected from the group consisting of methanol, ethanol, propanol, and isopropanol.

Claim 6 (currently amended): The method of claim 1, wherein said solvent of step 1c is a mixture of at least one protic polar solvent and, at least one aprotic polar solvent.

Claim 7 (original): The method of claim 1, wherein said stereoregular prepolymer is polymerized in a solvent in the presence of a tertiary amine.

Claim 8 (previously presented): A product produced by the method of claim 1, wherein said amidoamino acid is a sodium salt of 6-[N-(2'-aminoethyl)]-D-glucaramide.

Claim 9 (previously presented): A product produced by the method of claim 1, wherein said amidoamino acid is a sodium salt of 6-[N-(4'-aminobutyl)]-D-glucaramide.

Claim 10 (previously presented): A product produced by the method of claim 1, wherein said amidoamino acid is a sodium salt of 6-[N-(6'-aminohexyl)]-D-glucaramide.

Claim 11 (previously presented): A product produced by the method of claim 1, wherein said amidoamino acid is a sodium salt of 6-[N-(12'-aminododecyl)]-D-glucaramide.

Claim 12 (canceled)

Claim 13 (currently amended): A product produced by the method of claim 1 8, wherein said amidoamino acid is a sodium salt of 6-[N-(2'-aminoethyl)]-D-glucaramide and said stereoregular head,tail-poly(alkylene D-glucaramide) postpolymer has a repeating unit $C_8H_{14}O_6N_2$ a degree of polymerization of about 8.0, an average molecular weight of about 1,874 and an estimated molecular weight of about 3,841.

Claim 14-15 (canceled)

Claim 16 (currently amended): A stereoregular head, tail-poly(alkylene D-glucaramide) postpolymer produced by a method comprising the steps of:

- a) esterifying an 6-[N-(4'-aminobutyl)]-D-glucaramide in an alcohol;
- b) polymerizing the esterified 6-[N-(4'-aminobutyl)]-D-glucaramide in a protic solvent in the presence of a tertiary amine to form a stereoregular prepolymer; and
- c) polymerizing the stereoregular prepolymer in a solvent that is different from the solvent in step b) to form the stereoregular head, tail-poly(alkylene D-glucaramide) postpolymer;

wherein said stereoregular head, tail-poly(alkylene D-glucaramide) postpolymer has ~~the formula~~ a repeating unit $C_{10}H_{18}O_6N_2$, a degree of polymerization of about 30.0, a number average molecular weight of about 7,868 and an estimated weight average molecular weight of about 16,129.

Claim 17-18 (canceled)

Claim 19 (currently amended): A stereoregular head, tail-poly(alkylene D-glucaramide) postpolymer produced by a method comprising the steps of:

- a) esterifying an 6-[N-(6'-aminohexyl)]-D-glucaramide in an alcohol;
- b) polymerizing the esterified 6-[N-(6'-aminohexyl)]-D-glucaramide in a protic solvent in the presence of a tertiary amine to form a stereoregular prepolymer; and
- c) polymerizing the stereoregular prepolymer in a solvent that is different from the solvent in step b) to form the stereoregular head, tail-poly(alkylene D-glucaramide) postpolymer;

wherein said stereoregular head, tail-poly(alkylene D-glucaramide) postpolymer has ~~the formula~~ a repeating unit $C_{12}H_{22}O_6N_2$, a degree of polymerization of about 42.7, a number average molecular weight of about 12,400 and an estimated weight average molecular weight of about 25,410.

Claim 20-21 (canceled)

Claim 22 (currently amended): A stereoregular head, tail-poly(alkylene D-glucaramide) postpolymer produced by a method comprising the steps of:

- a) esterifying an 6-[N-(12'-aminododecyl)]-D-glucaramide in an alcohol;
- b) polymerizing the esterified 6-[N-(12'-aminododecyl)]-D-glucaramide in a protic solvent in the presence of a tertiary amine to form a stereoregular prepolymer; and
- c) polymerizing the stereoregular prepolymer in a solvent that is different from the solvent in step b) to form the stereoregular head, tail-poly(alkylene D-glucaramide) postpolymer;

wherein said stereoregular head,tail-poly(alkylene D-glucaramide) postpolymer has ~~the formula~~ a repeating unit $C_{18}H_{34}O_6N_2$, a degree of polymerization of about 17.6, a number average molecular weight of about 6,590 and an estimated weight average molecular weight of about 16,477.

Claim 23 (canceled)